

CLAIMS:

1. A single conversion tuner for digital terrestrial broadcast signals, comprising:

a tuner input;

a single frequency changer for converting any selected one of a plurality of channels to a non-zero output intermediate frequency for demodulation, said frequency changer comprising an image reject mixer and a local oscillator arranged to supply to said mixer a local oscillator signal having a frequency which is substantially equal to a sum of a frequency of said selected channel and said output intermediate frequency; and

a non-alignable low pass filter having a turnover frequency and being arranged to track said frequency of said local oscillator such that said turnover frequency of said low pass filter is greater than said frequency of said selected channel and less than a sum of said frequency of said selected channel and twice said output intermediate frequency.

2. A tuner as claimed in claim 1, in which said low pass filter is arranged to provide at least 15 decibels of attenuation at said sum of said frequency of said selected channel and twice said output intermediate frequency.

5. A tuner as claimed in claim 1, comprising a digital/analog converter for controlling said low pass filter and a memory containing a look-up table for receiving a channel request and for supplying filter tuning data to said converter.

4. A tuner as claimed in claim 1, comprising a non-alignable high pass filter having a turnover frequency and a variable bandwidth between said tuner input and said frequency changer.

5. A tuner as claimed in claim 4, in which said turnover frequency of said high pass filter is arranged to track said frequency of said local oscillator such that said turnover frequency of said high pass filter is less than said frequency of said selected channel.
6. A tuner as claimed in claim 1, comprising a variable gain stage between said tuner input and said low pass filter.
7. A tuner as claimed in claim 6, in which said variable gain stage comprises a low noise amplifier.
8. A tuner as claimed in claim 1, comprising a band limit filter between said tuner input and said low pass filter.